

# *LARGE SCALE TUBULAR LINE KITING SYSTEM*

## **Abstract**

A large scale cleaning plug (L) adaptable to be placed within an interior passageway (10) of a tubular system (14) includes a generally conically shaped element (C) having a first end (18) and an opposite second end (20). The width of the first end (18) fits within the tube (12). The width of the second end (20) may be less than the first end (18). Rigging (236) is connected to the first end (18) to secure the conical element (C). A nozzle assembly (220) is mounted with the second end of the conical element (20). The nozzle assembly (220) has a plurality of nozzle bodies (222) extending from a plate (226) preventing appreciable fluid flow through the conical element (C) and permitting a desired fluid flow through an exit opening (223) of the nozzle bodies (222).